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(57) Abstract

In the production of water vapour, in particular in the production of especially clean vapour, it is essential that the gases dissolved in the feed-water, which are mainly atmospheric gases, are removed. When using a falling film evaporator, it is important to distribute the feed-water evenly on the heat transfer surfaces. In the method and apparatus according to the invention, the degassing and the even distribution of water take place at the same time when spraying the feed-water to the beginning of the heat transfer channel assembly evenly as fine droplets from which the gases can separate quickly. There is no time for re-dissolving since the evaporation process starts immediately.